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FILE 'HOME' ENTERED AT 15:02:14 ON 06 JAN 2007

=> file reg
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
0.21	0.21

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STRUCTURE FILE UPDATES: 5 JAN 2007 HIGHEST RN 916882-34-3
DICTIONARY FILE UPDATES: 5 JAN 2007 HIGHEST RN 916882-34-3

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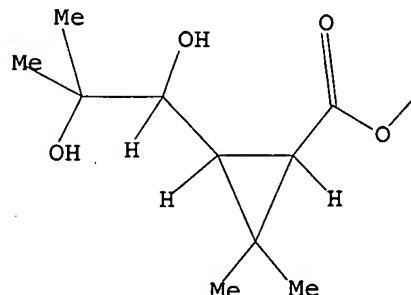
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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=> Uploading C:\Program Files\Stnexp\Queries\10549310-claim11.str
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L1 STRUCTURE UPLOADED

=> d 11
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 15:02:55 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

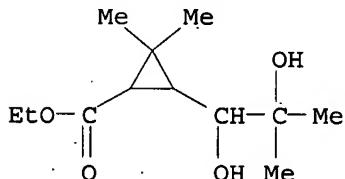
=> s 11 full
FULL SEARCH INITIATED 15:02:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 60 TO ITERATE

100.0% PROCESSED 60 ITERATIONS 8 ANSWERS
SEARCH TIME: 00.00.01

L3 8 SEA SSS FUL L1

=> d 13 scan

L3 8 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Cyclopropanecarboxylic acid, 3-(1,2-dihydroxy-2-methylpropyl)-2,2-dimethyl-
, ethyl ester (9CI)
MF C12 H22 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
172.10	172.31

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FILE LAST UPDATED: 5 Jan 2007 (20070105/ED)

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=> s 13
L4 12 L3

=> s 14 and bismuth
133127 BISMUTH
L5 3 L4 AND BISMUTH

=> d 15 ibib abs hitstr 1-
YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:857542 CAPLUS
DOCUMENT NUMBER: 141:331831
TITLE: Process for preparation of aldehydes
INVENTOR(S): Takano, Naoyuki; Hagiya, Koji
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087634	A1	20041014	WO 2004-JP4069	20040324
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004315506.	A	20041111	JP 2004-79800	20040319
EP 1609776	A1	20051228	EP 2004-722950	20040324
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
CN 1761640	A	20060419	CN 2004-80007533	20040324
US 2006089506	A1	20060427	US 2005-549310	20050916
PRIORITY APPLN. INFO.:			JP 2003-93752	A 20030331
			WO 2004-JP4069	W. 20040324

OTHER SOURCE(S): MARPAT 141:331831

AB This invention pertains to a method for producing carbonyl compds. with general formula of R1COR3 and R2COR4 [wherein R1-R4 = independently (un)substituted alkyl, aryl, aralkyl, acyl, etc.], which comprises

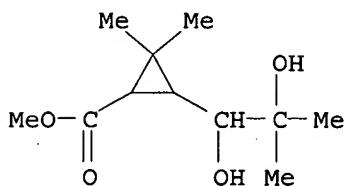
reacting diols HO-C(R1)(R3)-C(R2)(R4)-OH with Br₂ or an inorg. bromine compound in the presence of a bismuth(III) compound and a base. For example, trans-3,3-dimethyl-2-(1,2-dihydroxy-2-methylpropyl)cyclopropanecarboxylic acid Me ester was treated with Br₂ and Ph₃Bi in MeCN in the presence of K₂CO₃ to give trans-3,3-dimethyl-2-formylcyclopropanecarboxylic acid Me ester (88%). This invention provides a method to prepare carbonyl compds. with less expensive B₂ with industrial advantages.

IT 18228-66-5 401910-17-6 770720-11-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of aldehydes by oxidation of 1,2-diols with bromine)

RN 18228-66-5 CAPLUS

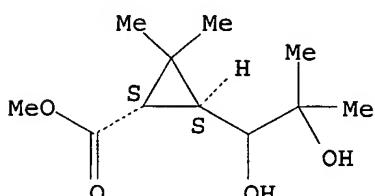
CN Cyclopropanecarboxylic acid, 3-(1,2-dihydroxy-2-methylpropyl)-2,2-dimethyl-, methyl ester (8CI, 9CI) (CA INDEX NAME)



RN 401910-17-6 CAPLUS

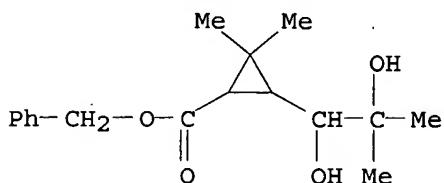
CN Cyclopropanecarboxylic acid, 3-(1,2-dihydroxy-2-methylpropyl)-2,2-dimethyl-, methyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 770720-11-1 CAPLUS

CN Cyclopropanecarboxylic acid, 3-(1,2-dihydroxy-2-methylpropyl)-2,2-dimethyl-, phenylmethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT:

2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:857541 CAPLUS

DOCUMENT NUMBER: 141:331830

TITLE: Process for producing formylcyclopropane derivatives

INVENTOR(S): Takano, Naoyuki; Hagiya, Koji

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan

SOURCE: PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

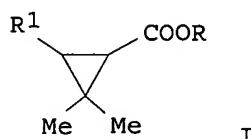
Japanese

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087633	A1	20041014	WO 2004-JP4064	20040324
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004315505	A	20041111	JP 2004-79799	20040319
PRIORITY APPLN. INFO.:			JP 2003-93751	A 20030331
OTHER SOURCE(S):	MARPAT 141:331830			
GI				



AB This document discloses a process for producing an aldehyde compound represented by the formula I (R represents (un)substituted alkyl, (un)substituted aryl, or (un)substituted aralkyl; R1 represents CHO) characterized by reacting a diol compound represented by the formula I (R has the same meaning as defined above; R1 represents $\text{Me}_2(\text{OH})\text{CCHOH}$) with an N-bromoamide compound or N-bromoimide compound in the presence of a bismuth compound and a base. I are intermediates for insecticides, etc. Thus, treatment of trans-3,3-dimethyl-2-(1,2-dihydroxy-2-methylpropyl)cyclopropanecarboxylic acid Me ester in acetonitrile with N-bromosuccinimide in the presence of triphenylbismuth and potassium carbonate gave trans-3,3-dimethyl-2-formylcyclopropanecarboxylic acid Me ester in 89% yield.

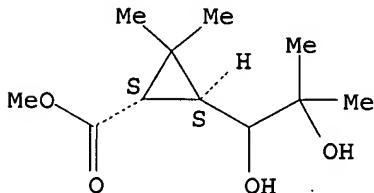
IT 401910-17-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(process for producing formylcyclopropane derivs. by reacting (dihydroxymethylpropyl)cyclopropane derivs. with N-bromoamide or N-bromoimide in presence of bismuth compound and base)

RN 401910-17-6 CAPLUS

CN Cyclopropanecarboxylic acid, 3-(1,2-dihydroxy-2-methylpropyl)-2,2-dimethyl-, methyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

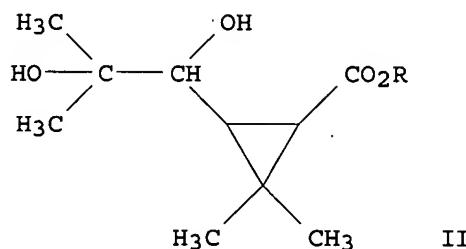
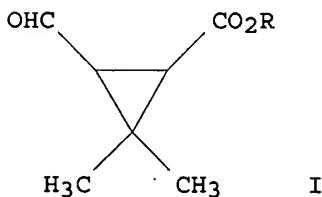
Relative stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:633634 CAPLUS
 DOCUMENT NUMBER: 139:179814
 TITLE: Oxidation process for the production of trans-3,3-dimethyl-2-formylcyclopropane carboxylic acid esters
 INVENTOR(S): Takano, Naoyuki; Hagiya, Koji
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
 SOURCE: PCT Int. Appl., 28 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003066566	A1	20030814	WO 2003-JP954	20030131
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2003300935	A	20031021	JP 2002-367822	20021219
AU 2003206131	A1	20030902	AU 2003-206131	20030131
PRIORITY APPLN. INFO.:			JP 2002-32556	A 20020208
			WO 2003-JP954	W 20030131
OTHER SOURCE(S): GI				
CASREACT 139:179814; MARPAT 139:179814				



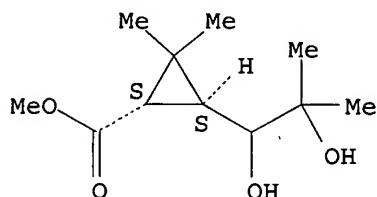
AB A process for the production of a cyclopropanealdehyde [I; R = (un)substituted alkyl, (un)substituted aryl, (un)substituted aralkyl; e.g., Me trans-3,3-dimethyl-2-formylcyclopropanecarboxylate] includes reacting a cyclopropanediol compound [II; e.g., Me trans-3,3-dimethyl-2-(1,2-dihydroxy-2-methylpropyl)cyclopropanecarboxylate] with an oxidizing agent selected from a periodic acid compound (e.g., sodium periodate), a hypohalogenous acid compound, a bismuth compound, or an activated manganese dioxide.

IT 401910-17-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (oxidation process for the production of trans-3,3-dimethyl-2-formylcyclopropane carboxylic acid esters)

RN 401910-17-6 CAPLUS

CN Cyclopropanecarboxylic acid, 3-(1,2-dihydroxy-2-methylpropyl)-2,2-dimethyl-methyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	20.17	192.48
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	ENTRY	SESSION
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 LAST RELOADED: Jan 2, 2007 (20070102/UP).

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